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UZUNOV, G.; IORDANOV, V.; KHRISTOV, V.

Distribution of radioactive coblat (Co⁶⁰) in the organism under conditions of experimentally induced epileptoid seisures. Fisiol. shur. 45 no.11:1304-1307 H *59. (MIRA 13:5)

1. From the department of psychiatry, Higher Medical Institute and the department of atomic physics, State University, Sofia.

(CONVULSIONS exper.)

TANCHEV, I.; KHRISTOV, V.

▲ case of chronic colitis induced by Balantidium coli. Suvrem.med. Sofia no.9/10:156-158 '59.

1. Iz Okruzhnata bolnitsa "Thristo Botev" - Vratsa. Glaven lekar: M. Peev.

(BALANTIDIASIS case reports)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

KHRISTOV, V.

"Fattening Calves; Simmenthal Mongrels."

p. 33 (Kooperativno Zemedelie, No. 7 July 1958, Sofiia, Bulgaria)

Monthly Indes of East European Accessions (EEAI) LC, Vol. 7, No. 11, Nov. 1958

The control of the co

KHRISTOV, V. . akademik

Quality of estimates obtained by the method of least squares. Izv. vys. ucheb. zav.; geod. i aerof. no.2:43-60 '60. (MIRA 13:6)

1. Marodnaya Respublika Bolgarii, Bolgarskaya Akademiya nauk. (Least squares)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722330008-6

L 18459-63

EPF(n)=2/EWT(m)/BDS

ACCESSION NR: AT3002409

AUTHOR: Khristov, V.; Damyanov, D.; and B'chvarov, N.

TITLE: Certain results from the study of corona counters of neutrons and their

use in reactor measurements

SOURCE: B'hgarska akademiya na naukite. Fizicheski institut. Izvestiya na

Fizicheskiya institut s ANEB, v. 10, no. 2, 1962, 37-45

TOPIC TAGS: corona counter, corona, neutron counter, neutron, reactor, reactor

measurement, IRT-1000

ABSTRACT: Authors have constructed several types of corona counters with electrodes of different shapes (shown in Fig. 1 of Encksure 1), filled with pure argon. Working characteristics of counters were studied with the help of the apparatus, shown in block diagram in Fig. 2 of Enclosure 2. It is shown that a stable corona and a good working plateau may be obtained by the appropriate selection of charge resistances and argon pressure. Empirical correlations have been established between the corona and the working characteristics of the counter.

The advantages of the corona counter has enabled the authors to use it as a

Card 1/42/

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L 18459-63

· ACCESSION NR: AT3002409

2

convenient and stable detector in construction an all-wave neutron counter with effectiveness for the whole reactor spectrum. A long cylindrical corona counter was used by the authors in measuring the efficacy of the biological shielding and the gate valves of the IRT-1000 in Sofia. "The authors express their gratitude to Stefan Ridzhikov, manager of the glass-blowing workshop, for his valuable technical assistance." Orig. art. has 12 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 04 Jun 63

ENCL: 02

SUB CODE: PH

NO REF SOV: 002

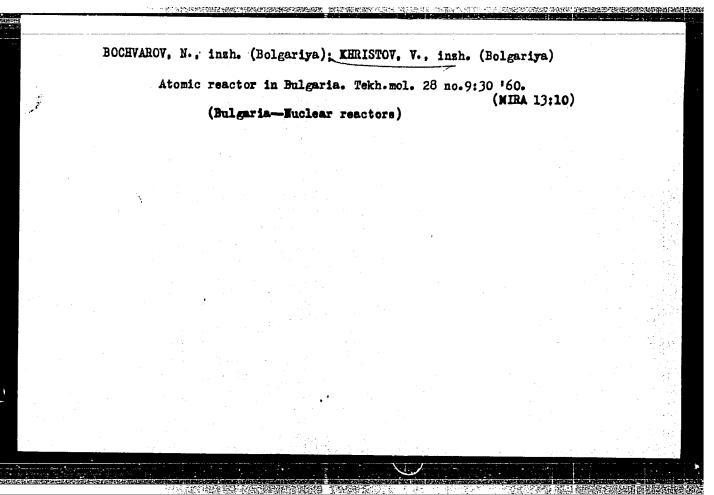
OTHER: 000

Card 2/102

KHRISTOV, V.; STANOLOV, A.; BUCHVAROV, N.; ROMANOV, G.

An automatically controlled diffusion Wilson chamber operating under conditions of intensive irradiation of the reactor neutron beams. Fiz mat spisanie BAN 7 no.1:30-38 '64.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"



EHRISTOV, V.; STANOLOV, A.

Possibilities of operating the Wilson diffusion chamber under intensive irradiation from reactor neutron beams. Doklady BAN 17 no.6:531-534 164.

1. Fredstavleno skad. G. Nadzhakovym.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

3/058/63/000/003/024/104 A062/A101

AUTHORS:

Khristov, V., Sakalyan, K., Bychvarov, N.

TITLE:

Installation for automatic recording of the activity of wires being

activated in a reactor

PÉRIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 41, abstract 3V291 ("Dokl. Bolg. AN", 1962, v. 15, no. 3, 249 - 252, summary in

English)

The article describes an automatic installation that permits to TEXT: carry out, fast and with a good accuracy, a continuous registration and recording of the activity of irradiated wires. The installation comprises a mechanical arrangement for fixing and displacing the wire and a recording device including a photomultiplier FEU-19M with a crystal NaI (TI) under a lead shield, a pulse amplifier, an intensimeter and a recorder.

A. Kamayev

[Abstracter's note: Complete translation]

Card 1/1

ACCESSION NR: AT4017783

B/2503/63/011/01-/0201/0220

AUTHOR: Khristov, V.; Damyanov, D.; Stanolov, A.

TITLE: Neutron flux and radiation field of the IRT-1000 reactor in Sofia

SOURCE: B"lgarska Akademiya na Naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB (News of the Institute of Physics and the Atomic Energy Scientific Research Foundation), v. 11, no. 1-2, 1963, 201-220

TOPIC TAGS: IRT-1000, nuclear reactor, reactor, neutron, flux, thermal neutron, resonance neutron, fast neutron, gamma radiation, Grey chamber

ABSTRACT: Adduced are the results of the absolute measurement of thermal, resonance and fast (E > 1 MeV) neutron currents in the active zone and in experimental channels of the IRT-1000 reactor in Sofia. Measurements were made on irradiated plates of gold and indium, and for fast neutrons by means of threshold detectors (S³², P³¹, Mg²⁴, Na²⁴, Al²⁷) by the 2-pi method, using apparatus calibrated according to a 4-pi device constructed by the coauthors, yielding accuracy in excess of Sp. Control measurements were made by the method of beta-gamma coincidences, with apparatus consisting of scintillation counter (gamma channel) with MST-17 (beta channel) end-type counter. Consistently good results were obtained on repetition.

ACCESSION NR: AT4017783

Absolute and relative measurements of doses of mixed neutron-gamma field were made at different points of the reactor by means of Grey chambers designed and constructed by the coauthors (polystyrene with acetylene and graphite with argon), which measured the absolute doses of the gamma field with the reactor in a state of rest following previous operation under various regimes. Recorded by means of an automatic recording device was the distribution of slow neutrons in the active zone of the reactor along the irradiated copper wires in it, and determination was made of the coefficient of volume variability of the distribution $K_{\mathbf{V}}^{i} = 0.47$. Likewise. made were relative measurements of the distribution of F_{th} , F_{res} , F_f and $D\gamma$ several experimental channels of the reactor, and these will be further extended in the next stage when the spectrum of fast neutrons and the gamma field at all points important for the experiments are made. Results of the experiments are summarized in Tables 1 and 2 of the Enclosure. A number of devices were constructed, making it possible to carry on successful radiobiological investigations. The results of the measurements are necessary in practice for groups of experimenters using the reactor and have, as well, theoretical interest for certain computations in the domain of reactor physics. "Throughout the entire period of time that we were conducting measurements, aid and cooperation were extended to us by a number of comrades from the reactor collective, and to them we express our gratitude."

Card 2/\$ 3

ACCESSION NR: AT4017783

art. has: 14 figures, 16 equations, and 5 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 04Mar64

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SUB CODE: NS, PH

NO REF SOV: 007

THER: 010

Card 3/4 1

* /Pc-4/Pu-4	
L 41790-65 ENT(m)/EPF(c)/EPF(n)-2/EHG(m)/EPR Pr-4/Ps-4/Pu-4 ACCESSION NR: AT5004298 B/2503/64/012/01-/0127/0136 B/2503/64/012/01-/0127/0136	
AUTHOR: Khristov, V., Buchvarov, N., (Bychvarov, N.); Markov, A. TITLE: Investigation of some kinetic characteristics of the IRT-1000 reactor at	
Sofia by the reactor oscillation Since Rigidal Institut, Izvestiya na.	·
SOURCE: Bulgarska akademiya na naukite. 122 1964, 127-136 Fizicheskiya institut s ANEB, v. 12, no. 1/2, 1964, 127-136 TOPIC TAGS: nuclear reactor, neutron, delayed neutron, fission nautron, ionization	•
chamber, reactor oscillator method has been used to determine the effective	
fission neutrons in the active zone (see Figures 1 and 2 of the Enclosure) of the fission neutrons in the active zone (see Figures 1 and 2 of the Enclosure) of the fission neutrons in the active zone (see Figures 1 and 2 of the Enclosure) of the fission neutrons in the active zone (see Figures 1 and 2 of the Enclosure) of the fission was used (Bouzik, J., Dabek, W., Dobrowsky, C. et. al., accillation was	
Nukleonika, Vol. VI, No. 11, 1961). The resulting signal from the oscillate made detected using a small, hollow, compensated, coaxial ionization chamber. This made detected using a small, hollow, compensated, coaxial ionization chamber. This made it possible to oscillate a sample in the same channel in the immediate vicinity of it possible to oscillate a sample in the same channel in the sensitivity of the the detector itself (above and below it), thereby improving the sensitivity of the	_
Card 1/\$	

L 41790-65

ACCESSION NR: AT5064298

0

measurement method. The experimentally determined values β * and λ were used in computing and constructing amplitude curves and frequency-phase characteristics for the reactor (Fig. 3 of the Enclosure). Later, a corrected reaction curve was constructed. Orig. art. has: 9 formulas, 7 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 290ct63

ENCL: 03

SUB CODE: NP

NO REP SOV: 004

OTHER: 002

Card 2/5

KHRISTOV, V.; DAMYANOV, D.; REMANOV, G.

Portable transistor radiometer for neutrons operating with corona counters. Doklady BAN 16 no.7:693-696 *63.

1. Predstavleno chl. - korr. E.Dzhakovym.

ETC(f)/EFF(n)-2/EWI(m) L 22633-66 AT6004203 (N) SOURCE CODE: BU/2503/65/013/001/0005/0012 AUTHOR: Khristov, V.; Stanolov, A. ORG: none TITLE: Neutron spectra of the reactor IRT-1000 in Sofia SOURCE: Bulgarska akademiya na naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB, v. 13, no. 1, 1965, 5-12 TOPIC TAGS: neutron spectrum, nuclear reactor core, neutron detector, Fermi level, Maxwell distribution, neutron/IRT-1000 reactor ABSTRACT: The effective neutron temperature of the reactor IRT-1000 in Sofia has been determined by two independent methods (the method of transmission and the method of reactivity). The value 375K has been obtained. The constant & relating the spectrum of thermal neutrons with Maxwell distribution to the Fermi slowing-down spectrum has been determined. The results obtained by the method of two independent resonance detectors and that of the cadmium ratio are in good agreement. In the center of the pile core $\lambda = 0.056$. Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

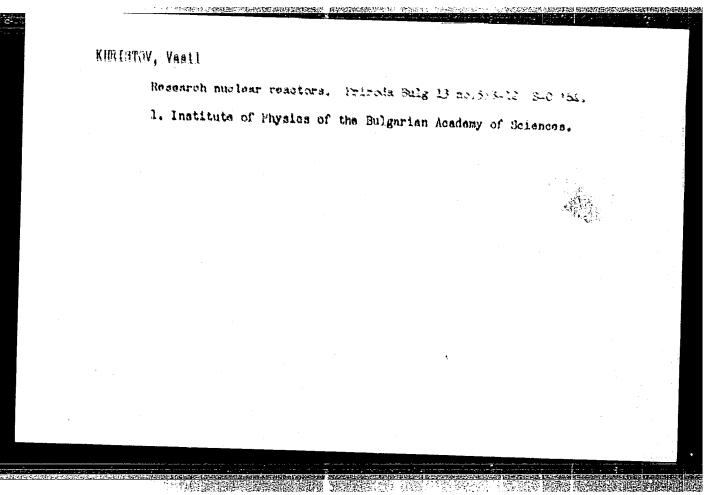
L 22633-66

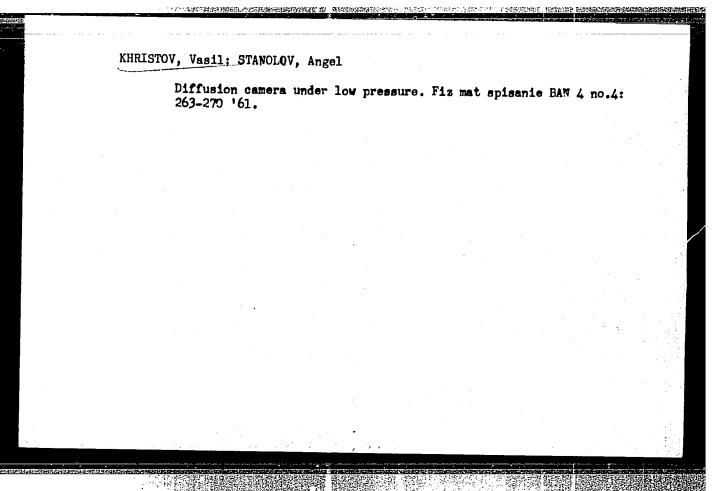
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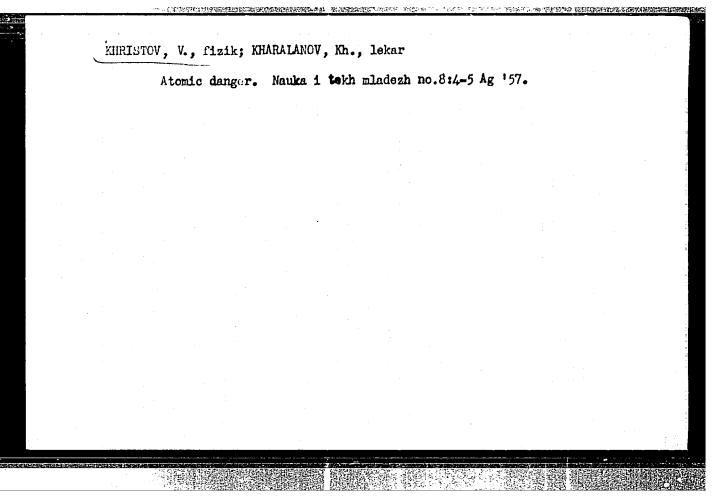
The integral fast neutron spectrum in the energy interval from 2.7 to 12.18 MeV has been determined by means of 7 threshold detectors. Orig. art. has: 6 formulas, 3 figures and 1 table. [Based on

SUB CODE: 18,20/ SUBM DATE: 05May64/ ORIG REF: 001/

Card 2/2 1/45







KHRISTOV, VASIL Y

Ekskurziya iz Atomniya Tsentur by Vasil Y. Khristov l Nikolay St. Bucharov. Sofiya, "Narodna Prosveta", 1963.

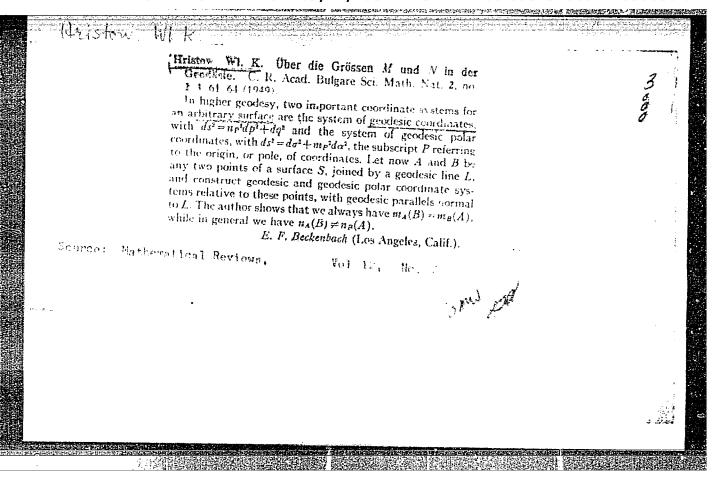
152 p. illus.

1. Bulgarska Akademiya na Naukite, Sofia Fizicheski Institut. 2. Bulgarska Akademiya na Naukite, Sofia. Atomna Nauchnoeksperimentalna Baza. 3. Nuclear reactors - Bulgaria. 4. Bulgaria - Nuclear reactors. 1. Title. 11. Bucharov, Nikol-

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

KHRISTOV, Vlado, inzh.

Coreless drilling. Ratsionalizatsiia 13 no.9:22 *63.



Book		U i	nolassified	
	ristov, V.	•		
Title: Ge:	detic Astronomy			
Publishing	Data: Sofiia. Na	uka i Izkustvo. 1950	290 p.	
Available:	E. European Acces	. List, May 1952		
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KHRISTOV, VLADIMIR K.

Khristov, Vladimir K. Tablitsi za geodezicheski izchisleniia s mashina po elissoida na F. N. Krasovski za shirochina ot 40° do 45° Sufiya, Nauka i izkustvo (1951) 60 p. Tables for geodetic calcultations on the computation machine for the latitude of 40-45 de rees according to the ellipsoid of F. N. Krasovski

SO: Monthly List of East European Accessions, L. C. V ol. 3. No. 1. Jan '54 Uncl.

KHRISTOV, Vladimir K., professor, doktor chlen-korrespondent Bolgarskoy akademii nauk, laureat Dimitrovskoy premii.

[Notes on the construction of universal tables on F.M.Krasovskiy's ellipsoid for Gaussian co-ordinates] Zametki o sostavlenii mirovykh tablits na ellipsoide F.M.Krasovskogo dlia gaussovykh koordinat. Sofiia, 1952. 38 p.

(MRA 6:7)

(Coordinates)

是一个人,我们就是一个人,我们就是一个人,我们们的一个人的人,这个人的人,我们们的一个人的人,我们们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们

KHRISTOV, Vladimir K., professor, doktor, chlen korrespondent, laureat Dimitrovakoy premii.

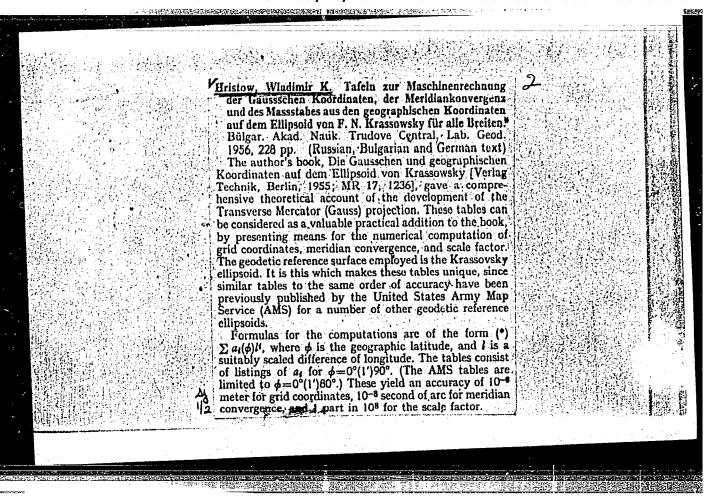
[Transformation of stereographic coordinates into Gauss coordinates] Transformatsia stereograficheskikh koordinat v gaussovye koordinaty. Sofiia, 1952. 48 p. (MLRA 6:8)

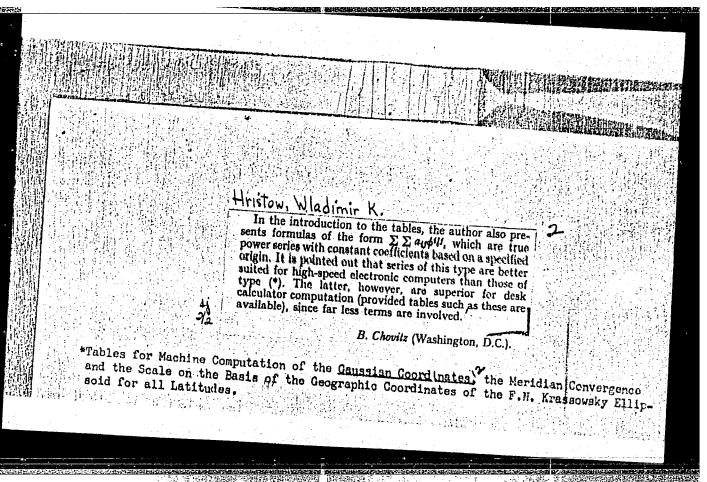
1. Bolgarskaya Akademiya nauk.

(Coordinates)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

"The Causeis published in Ge	m and	Geographic Coordinates on the Ellipsoid of Krasovskiy," Berlin, 1955. 254 pages.
Translation No	.607,	7 Nov 56





3(2)

PHASE I BOOK EXPLOITATION

SOV/1630

Khristov, Vladimir K.

Koordinaty Gaussa-Kryugera na ellipsoide vrashcheniya. Perevod s bolgarskogo (Gauss-Kriiger Coordinates on a Revolution Ellipsoid. Translated from the Bulgarian) Moscow, Geodezizdat, 1957. 261 p. 2,500 copies printed.

Translator: O.B. Sheynin; Ed.: V.P. Morozov; Tech. Ed.: V.V. Romanova; Ed. of Publishing House: L.M. Komar'kova

PURPOSE: This book is intended for geodesists and cartographers as well as for students in advanced courses in geodetic vuzes.

COVERAGE: The contents are a translation of a book by the Bulgarian geodesist, V.K. Khristov. Professor Khristov has berein consolidated all articles and papers previously published by him on the Gauss-Krüger projection. The entire book is devoted to formulas, relationships, and solutions of problems and questions which may be encountered by a geodesist or cartographer in using the plane rectangular coordinates in the conformal Gauss projection. The Forward includes a short history of the Gauss-Krüger System while the Appendix contains a list of

Card 1/5

Gauss-Krüger Coordinates (Cont.)	0V/16 3 0
of German language articles by the author which are summarized in There are 25 figures. There are no references given.	in this work.
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26. The Conversion of Gauss-Krüger Coordinates in the Case of a Minor Shift in Coordinate System	224
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Mathematical Appendig	248
AVAILABLE: Library of Congress (QA 556.K487)	,-
Card 5/5 MM/gmp 5-8-59	

KHRISTOV, VLADIMIR K.

"Tabitsi za obratnata geodezicheska zadacha s geografski koordinati za izchislenie sus smetachna mashina vurkhu elipsoida na F. N. Krasovski za vsichki shirochini."

Sofiia, Bulgaria, Bulgarska akademiia na naukite, 1958. 11hp.

Monthly List of East European Accessions (EEAI), IC, Vol. 9, No. 2, February, 1960. Uncl.

KHRISTOV, V.

Transformation between two referent ellipsoids for Gauss coordinates. III. p. 71. Priroda I Znanie, Sofia Bulgaria, Vol. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 10, Oct. 1959. Uncl.

KHRISTOV, V.

Transformation between two referent ellipsoids for geographical coordinates. 1. p. 5

Priroda I Znanie, Sofia Bulgaria, Vol. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 10, Oct. 1959. Uncl.

AUTHOR:

Khristov, Vl. K., Corresponding

6-58-3-11/16

Member of the Bulgarian Academy of

Sciences

TITLE:

Classical and Modern Methods for Evaluating

the Accuracy of Observation (Klassicheskiye i sovremennyye

metody otsenki tochnosti nablyudeniy)

PERIODICAL:

Geodeziya i Kartografiya, 1958, Nr 3, pp. 51-65 (USSR)

ABSTRACT:

The author'is of opinion that the classical theory needs to be examined. Here he poses the problem of a critical revision of the present practice in the evaluation of the accuracy of measurement and gives some considerations in this connection. For this purpose

he gives some conceptions and definitions of the probability theory and of statistics. The usual mathematical apparatus and the theses of the method of smallest squares are used here. - It is pointed out that it is very important that the observed

Card 1/3

quantity (i. e. the possible result of measurement) is a random quantity. In the case of a symmetrical

Classical and Modern Methods for Evaluating the Accuracy of Observation

6-58-3-11/16

distribution and in the absence of a systematic influence the average value of a (the priori mean value of the quantity X) coincides with the most probable value and will be its true value, whereas the standard o (the square root of the dispersion) coincides with the so-called mean error of the individual observations (but obtained from a large number of observations). It is further emphasized that the opinion spread everywhere that the most probable value of the sought quantity a is allegedly equal to the arithmetic mean of x is undue and false. In reality the true value a is a constant quantity and cannot have any distribution. The true a-value is the possible arithmetic mean of X which is a random quantity in the absence of systematic errors, i. e. also is a variable quantity and possesses its most probable value. - The author derives the formula (105) for evaluating the accuracy of the result. The so-called interval of confidence $(x - tm_x)$ to $(x + tm_x)$ introduced by the author occurs in

。我们们就被影响的"我们就是我们的,我们们就是这一个,这个一个,一个一个一个,一个一个,一个人,我们就是这种,我们就是我们的,我们就是我们的人,我们就是我们的人

Card 2/3

Classical and Modern Methods for Evaluating the Accuracy of Observation

6-58-3-11/16

this formula. The corresponding probability is called the probability of confidence. m denotes the number of unknown quantities, t - the distribution. The classical formula for the given case is (106). Both formulae (105) and (106) are compared. The difference at the right side of the formulae represents the error of the classical formula (106). When n is very high formula (105) goes over to (106). But when the number of observations is small the classical formulae must by no means be used. The difference in accuracy according to both methods is here illustrated with the aid of an example. There are 4 tables.

AVAILABLE:

Library of Congress

1. Measurement -- Analysis

Card 3/3

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

CHRISTOW, W.

SCIENCE

Periodical: GEODEZJA I KARTOGRAFIA. Vol. 7, no. 1, 1958.

CHRISTOW, W. Classical and modern methods of evaluating the precision of compensation by indirect observations. p. 12.

Monthly List of East European Acessions (EEAI), LC, Vol. 8, No. 3, May 1959 Unclass.

KHRISTOV, V. K.

3(4)

PHASE I BOOK EXPLOITATION

sov/3329

Khristov, Vladimir K., Academician

Obshchaya teoriya primenennykh v geodezii koordinat (General Theory of Coordinates Used in Geodesy) Sofiya, Izd. Bolgarskoy Akademii nauk, 1959. 254 p. (Series: Bolgarskaya Akademiya nauk. Otdeleniye matematicheskikh, fizicheskikh i tekhnicheskikh nauk. Tsentral'noy geodezicheskoy laboratorii. Trudy, no. 4) 500 copies printed.

Tech. Ed.: Y. Shangov.

PURPOSE: This is a reference book for geodesists.

COVERAGE: The book is part of a series on the Proceedings of the Central Geodetic Laboratory, Bulgarian Academy of Sciences. The general theory of coordinates is presented, and various systems of coordinates in geodesy are analyzed. This analysis leads to the conclusion that the universal acceptance of Gaussian coordinates along with geographical coordinates, is well founded.

Card 1/6

APPROVED FOR RELEASE: 09/17/2001 CIA-RDF3690513R000722330008-6'

It may be expected that in the near future Gaussian coordinates will entirely supplant all other systems of coordinates in the reference ellipsoid.

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KHRISTOV, Vladimir K. [Hristow, W.K.]

Problems of the appropriated division of the page of world map of 1: 2,500,000th, of its nomenclature and projection. Acta techn Hung 30 no.1/2:99-110 '60. (EEAI 10:1)

1. Ordentliches Mitglied der Bulgarischen Akademie der Wissenschaften (World maps)

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21922

S/006/61/000/006/001/002 D054/D113

16.6100 (1329,1103)

AUTHOR: Khristov, V.K. (Bulgaria)

TITLE:

Confidence intervals and confidence probabilities of adjusted

quantities obtained by the method of least squares

PERIODICAL: Geodeziya i kartografiya, no. 6, 1961, 70-77

TEXT: In this article the author demonstrated how the confidence intervals (£) and confidence probabilities (P) of adjusted quantities were obtained by the method of least squares, and how the application of this method allowed the connection between these confidences, in a very general case, to be shown. He adapted some formulae from his previous article "Klassicheskiye i sovremennyye metody otsenki tochnosti nablyudeniy" ("Classical and contemporary methods of estimating the accuracy of observations"), published in "Geodeziya i kartografiya", 1958, No. 3. These formulae are designated, in each case, by the accompanying number, 1 - e.g., 1(70). Any adjustment by the least squares method can result from adjusting intermediate observations. The author discussed the case of equations with two unknowns with a consequent generalization of derivations for a larger number of unknowns. Card 1/9

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Confidence intervals and confidence...

The equations given were as follows:

$$a_{1}x + b_{1}y = l_{1} + v_{1}; \qquad \frac{\sigma^{3}}{\rho_{1}}$$

$$a_{2}x + b_{2}y = l_{2} + v_{2}; \qquad \frac{\sigma^{3}}{\rho_{2}}$$

$$\vdots \qquad \vdots \qquad \vdots \qquad \vdots$$

$$a_{n}x + b_{n}y = l_{n} + v_{n}; \qquad \frac{\sigma^{2}}{\rho_{n}}$$
(1)

In and beyond formula (1), the following symbols are introduced: a_i , b_i are known numbers; x, y - adjusted values; $d_i\beta$ - estimation of unknown values; 1 - results of observations without systematic errors and corresponding to the Moivre-Laplace-Gauss normal distribution law; 1 - their actual values Card 2/9

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Confidence intervals and confidence...

cording to the condition

with the dispersions $\frac{\sigma^2}{p_i}$ (where p_i is the weights of observations considered as known and σ is an unknown standard corresponding to the weight p=1); and v_i - corrections to the results of observations determined ac-

$$\Sigma p_i v_i^2 = [pvv] = \min.$$
 (2)

Estimation of the accuracy of the function of the adjusted values and of the adjusted quantities observed. Applying the Taylor series to the formula

$$f = f(x,y),$$
 (3)

the following formula is expressed as a result of the actual values of the unknown quantities

$$\delta \hat{g} = \frac{1}{b^2} \delta x + \hat{f}_2 \delta y, \qquad (5)$$

Card 3/9

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S/006/61/000/006/001/002 D054/D113

Confidence intervals and confidence...

where δx , δy , δf are the actual errors. By orthogonally converting the x, y quantities in the equation 1(68) into x', y'quantities, the following formula was obtained

$$x = \cos \phi x' - \sin \phi y'$$

$$y = \sin \phi x' + \cos \phi y'$$
(6)

By substituting the δx , δy quantities, determined by the formula (6) in the expression (5), the following equation was obtained

$$.\delta f = (f_1 \cos \varphi + f_2 \sin \varphi) \, \partial x' + (-f_1 \sin \varphi + f_2 \cos \varphi) \partial y'. \tag{11}$$

According to the formula 1(75), we obtain

$$[pa'a']x' = [pa'l]$$

 $[pb'b']y' = [pb'l]$ (12)

Card 4/9

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Confidence intervals and confidence...

Therefore the dispersions of x', y' quantities, with $\delta x'$ and $\delta y'$ errors would

$$D(x') = \frac{\sigma^2}{[pa'a']}$$

$$D(y') = \frac{\sigma^2}{[pb'b']}$$
(13)

Consequently, for the dispersion (11), the following formula was obtained

$$D(\delta f) = \left(\frac{(f_1\cos\varphi + f_2\sin\varphi)^2}{[p\alpha'\alpha']} + \frac{(-f_1\sin\varphi + f_2\cos\varphi)^2}{[p\delta'\delta']}\right)\sigma^2. \tag{14}$$

Card 5/9

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S/006/61/000/006/001/002 D054/D113

Confidence intervals and confidence...

Therefore the quantity $\frac{3}{\left(\frac{(\int_1 \cos \varphi + \int_2 \sin \varphi)^2}{[pa'a']} + \frac{(-\int_1 \sin \varphi + \int_2 \cos \varphi)^2}{[pb'b']}\right)^{1/2}}$

 $= \sqrt{ [pa'a'] [pb'b'] } \delta f : (f^{2}_{1}([pa'a'] \sin^{2} \varphi + [pb'b'] \cos^{2} \varphi) + (15)^{2}_{1}([pa'a'] \cos^{2} \cos^{2} \varphi) + (15)^{2}_{1}([pa'] \cos^{2} \varphi)$

 $+2f_1f_2(-[pa'a']\sin\varphi\cos\varphi+[pb'b']\sin\varphi\cos\varphi)+f_2([pa'a']\cos^2\varphi+i)$

 $+[pb'b']\sin^2\varphi)^{-1/2}$

has the dispersion σ^2 . Mean error of the weight unit and the theoretical standard: The quantity [pvv] could be expressed as a sum of squares of normal quantities $(0,\sigma)$ resulting from the formula

$$\mu = \sqrt{\frac{[pov]}{k}}.$$
 (40)

where μ is the mean error of the weight unit. As the quantity

$$\frac{\sqrt{k\mu}}{\sigma} = \sqrt{\frac{(\rho vv)}{\sigma^2}} \tag{41}$$

is a square root of the sum of k squares of normal quantities (0, 1) Card 6/9

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21922 s/006/61/000/006/001/002 D054/D113

Confidence intervals and confidence...

having a so-called χ^2 distribution

$$P(x,k) = \frac{1}{2^{\frac{k-2}{2}} \Gamma(\frac{k}{2})}, x^{k-1} e^{-\frac{x^{k}}{2}}.$$
 (42)

Therefore the probability

$$P\left(x_{1}<\frac{\sqrt{k} \mu}{\sigma}< x_{2}\right)=\int_{x_{1}}^{x_{2}} P\left(x, k\right) dx \tag{43}$$

can be expressed as

$$P(\mu - \epsilon_{\mu} < \sigma < \mu + \epsilon_{\mu}) = P(\mu + \epsilon_{\mu} > \sigma > \mu - \epsilon_{\mu}) =$$

$$= P\left(\frac{1}{\mu + \epsilon_{\mu}} < \frac{1}{\sigma} < \frac{1}{\mu - \epsilon_{\mu}}\right) = P\left(\frac{\sqrt{k} \mu}{\mu + \epsilon_{\mu}} < \frac{\sqrt{k} \mu}{\sigma} < \frac{\sqrt{k} \mu}{\mu - \epsilon_{\mu}}\right). \qquad (44)$$

Card 7/9

Confidence intervals and confidence...

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Supposing that

$$x_{1} = \frac{\sqrt{k \mu}}{\mu + \varepsilon_{\mu}} = \frac{\sqrt{k}}{1 + \frac{\varepsilon_{\mu}}{\mu}} = \frac{k}{1 + q}$$

$$x_{2} = \frac{\sqrt{k \mu}}{\mu - \varepsilon_{\mu}} = \frac{\sqrt{k}}{1 - \frac{\varepsilon_{\mu}}{\mu}} = \frac{k}{1 - q}$$

$$(45)$$

then

$$P(\mu - \varepsilon_{\mu} < \sigma < \mu + \varepsilon_{\mu}) = \int_{z_{i}}^{z_{i}} P(x, k) dx = L(q, k).$$
(46)

Thus, the unknown standard $\sigma \approx \mathcal{M}$. If the confidence probability were given a certain definite value, e.g. P = 0.95, then L(q,k) = 0.95 could be expressed as

$$q = q(k). \tag{47}$$

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S/006/61/000/006/001/002 D054/D113

Confidence intervals and confidence...

If the quantity is tabulated for an excessive number of k observations, then, according to (45), we obtain

 $e_{\mu} = q\mu. \tag{48}$

and

 $\sigma = \mu \pm \varepsilon_{\mu}; \quad (P = 0.95).$

(49)

Thus, a certain value f for the unknown quantity f⁰ to be determined could be obtained with a mean //r error by the method of least squares. In the same way, the mean //k error for the weight unit could be found for the unknown 6 standard. The author gave 3 examples showing the importance of the application of confidence intervals and confidence probabilities to the adjustment of quantities by the method of least squares. There are 2 tables.

Card 9/9

s/044/62/000/012/030/049 A060/A000

AUTHOR:

Khristov, Vladimir

TITLE:

Standard confidence levels and the corresponding confidence

intervals

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1962, 27, abstract 12V140 (Compte rendu 1-er sympos. internat. calculs. géod. Cracovie, 1959,

Cracow, 1961, 167 - 170. Discuss., 170 - 176, German)

TEXT: If f is the final result of balancing according to the method of least squares, f_0 is the actual value of the measured quantity, k is the number of excess measurements (degrees of freedom, v are the remainders after the balancing, p are the weights, $\mu = \sqrt{\frac{pvv}{k}}$, then the result is usually represented in the form $f_0 = f + \mu$. For k = 1 this may be understood to mean that with probability P = 0.683 the actual value f_0 of the measured quantity is contained in the interval between $f - \mu$ and $f + \mu$. Proceeding from Student's t-distribution it may be considered that $f = f + t\mu$ where t at a fixed confidence level P = C

Card 1/2

Standard confidence levels and the ...

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is a function of the number of degrees of freedom k. Proceeding from Pierson's X-distribution for the actual mean effort σ an analogous relation $\sigma = \mu + q\mu$ is derived, where q for a fixed confidence level P = C is a function of the number of degrees of freedom k. It is proposed to introduce standard confidence levels P = 0.95 and P = 0.683. For these probabilities and 35 values of k, the values of t and q are cited. Eight authors take part in the discussion.

[Abstracter's note: Complete translation]

A. Kh. Zaslavskiy

Card 2/2

KHRISTOV, Vladimir K., akad.

Practical aspects of the third book of the "Bulletin of the Central Laboratory of Geodesy." Izv good BAN no.3:7 '62.

1. Direktor na Tentralnata laboratoriia po geodeziia, chlen na Redaktsionnata kolegiia i otgoveren redaktor, "Izvestiia na Tsentralnata laboratoriia po geodeziia."

KHRISTOV, Vladimir K., akad.

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Transformations of the Gauss, isometric transverse, isometric conic, stereographic, the Seldner, nemisometric transverse, nonisometrec conic, asimuthal (lecal) coordinates in the Gauss uniform coordinates. Izv good BAN no.3:7-50 '62.

1. Chlen na Redaktsionnata kolegiia i otgovoren redaktor, "Izvestiia na Tsentralnata laboratoriia po geodeziia."

42819

S/169/62/000/010/031/071 D228/D307

916/160

AUTHOR:

Khristov, Vl.K.

TITLE:

Establishing the point to which the gravity value

determined by a reverse pendulum pertains

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 10, 1962, 32, abstract 10/205 (Izv. Tsentr. labor. geod. B"lg. AN, 3, 1962, 51-58 (Bul.; summaries in Rus. and Ger.))

The oscillation of a reverse pendulum is considered, with allowance for the vertical gravity gradient k. If the oscillation amplitude φ is infinitely small, it may be reckoned that the measured value of g pertains to the point lying above the center of oscillation (considered in a direction towards the point of suspension) at $\delta = (2J/I) \ell$; where J is the moment of inertia of the pendulum relative to the pivot axis, I is the same in relation to the pivot axis, and ℓ is the pendulum's reduced length. The corresponding period correction for the pendulum's reduced length. responding period correction for the oscillation center reduction

Card 1/2

Establishing the point

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equals: $\delta T = -(1/\pi^2)k(J/I)T^3$. A further correction for the infinitely small amplitude reduction comprises the quantity: $\delta T = -(3/16\pi^2)k\left[1-(2J/I)\right]T^3\phi^2$, where ϕ is expressed in radians. Abstracter's note: Complete translation

Card 2/2

KHRISTOV, Vladimir K., skad.

The higher geodesy in the Soviet Union and its reflection in the geodesy of Bulgaria. Spisanie BAN 7 no.4x44-49 162.

KHRISTOV, Visdimir K., akad. prof.; POSTNIKOVA [translator]; GANCHEV, G. [translator]

Determination of geodesic geographical coordinates and ellipsoid heights by means of observation from artificial satellites.

Izv geod BAN no.429-33 963.

1. Chlen na Redaktsionnata kolegiia, otgovoren redaktor, "Izvestiia na Tsentralnata laboratoriia po geodeziia" (for Khristov).

KHRISTOV, Vladimir K., akad. prof.; POSTNIKOVA [translator]; GANCHEV, G. [translator].

Notes on the leveling of the continental first-order triangulation

notes on the leveling of the continental first-order triangulation under the basis, Laplace, and coordinate conditions. Izv good BAN no.4:35-43 *63.

ACC NR: AT7001736

(A)

SOURCE CODE: BU/2502/66/007/000/0005/0019

AUTHOR: Hristov, V. K. -- Khristov, V. K. (Professor; Academician, Member of

ORG: none

TITLE: Determination of the geodesic geographic coordinates and of the ellipsoidal heights on the basis of observations of distances to satellites

SOURCE: Bulgarska akademiya na naukite. Tsentralna laboratoriya po geodeziya.

TOPIC TAGS: geodesy, geodetic survey, artificial satellite observation

ABSTRACT: The Earth's geodesic geographic coordinates and the ellipsoidal heights are determined from distances measured from satellites. Initially, three coordinate systems were used in the measurements: a geocentric system in which the orbital coordinates δ , α , and Δ of the satellite are expressed; a reference ellipsoidal system in which the geodesic geographic coordinates and heights ϕ , λ , and H of the triangular points (topocenters) are expressed and which shows the displacements dx_0 , dy_0 , and dz_0 of the reference ellipsoid with respect to the Earth's common ellipsoid; and a topocentric system in which the observed distances Δ' to the satellite are expressed. A relationship between the following quantities is derived:

Card 1/2

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Votorinary Medicine

BULGARIA

CHENCHEV, Prof. Iv., VIZPB; NEDYALKOV, Dr. St., VII; KHRISTOV, Dr. Y., VII; DUMANOV, Dr. Y., VIZPB; BODUROVA, Dr. Tsv., VII; SAVOV, Dr. At., IBPRNE

"Properties of the Preparation Biozan T"

Sofia, Veterinarna Sbirka, Vol 63, No 8, 1966, pp 7-9

Abstract: Preparations Biozan T and Biozan P to be administered to newborn calves and pigs, respectively, for the prevention of intestinal and other diseases have been developed. Biozan T contains gamma-globulins active against S. enteritidus, S. typhi murium, P. bulbasepticus, E. coli (09, 078, and 0117), and the virus of Aujeszky's disease and Biozan P gamma-globulins active against S. cholerae suis, S. typhi murium, E. coli (hemolytic and non-hemolytic), and the virus of Aujeszky's disease. Furthermore, vitamin C, terramycin, biomycin, and penicillin have been added to both preparations. Tests carried out on Biozan T indicated that it was non-toxic to white mice, had a bacteriostatic effect on Staph, aureus 209 and E. coli 09, and did not deteriorate with respect to antibiotic activity on being stored at 40 for 5 months. On being administered to calves 3-16 days old, Biozan T was very effective in stimulating growth. While the calves did not develop diarrhea, a definite conclusion in regard to the effect of Biozan T in producing immunity is not yet possible at this stage. Table, no references.

1/1

APPROVED FOR RELEASE: 09/17/2001V; CIA-RDP86-00513R000722330008-6

Surteke intrusion of alkali rocks (central Tien Shan!. Zap. Kir. otd. Vses. min. ob-va no.5:39-49 165.

(MIRA 18:7)

KHRISTOV, Ye.V.

Find of Tournai sediments in the western part of the Kok-Shaal range system. Mat. po geol. Tian'-Shania no.4:106-109 '64.

(MIRA 17:10)

CAUTACAN

Bulgaria

CATEGORY

Plant Diseases. Diseases of Cultivated Plants.

ABS. JOUR.

REF ZHUR - BIOLOGIYA, NO. 4, 1959,

AUTHOR INST

Khristova
Sofia Institute of Plant Protection.
Sistases brought into Sulfaria on Lemons,
Sicet Oranges, Mandarina, and Bananas.

ORIG. PUB. :

Byul. rastit. zashchita, 1957, 6, No.3, 50-58. The decay of sweet oranges and mandarins at the time of transportation and storage was caused by Alternaria citri, renicillium italicum, r. digitatum, Fleospora herbarum, Gliocladium roseam, Colletotrichum gloeosporioides, and Aspergillus niger; lemons were infected with Rhizoctonia solani and Botrytis cinerea; bananas with Gloeosporium muserium. Experiments with pure cultures demonstrated that A. citri, i. italicum, and B. cinerea

CARD:

1/2

KHRISTOVA, A.; TSANEV, R.; MARKOV, G.

Studies on the wound process complicated with staphylococcus infection in totally X-ray irradiated mice. p. 203.

Bulgarska akademiia na naukite. Institut po biologia "Metodi Popov." IZVESTIA, BULLETIN. Sofia, Bulgaria, Vol. 9, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 12, December 1959 Uncl.

KHRISTOVA, A.; STOICHEV, N.

"Portable combined laboratory apparatus."

p. 23 (Ratsionalizatsila) Vol. 7, no. 5, May 1957 Sofiia, Pulgaria

SO: Monthly Index of East European Accessiona (SEAI) IC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

17 THE MOTOR PROPERTY WILLIAM STREET, STREET,

DIMITROV, M.; KHRISTOVA, A.

Reentgenetherapy of amphedentesis. Stomatologiia, Sofia no.5:259-265 1954.

1. Glaven lekar na Sofiiskiia okrushen onkologichen dispanser
(for Dimitrov) 2. Glaven lekar na Sofiiskata okrushna stomatologichna
poliklinika (for Khristova)
(PERIODORTIUM, diseases,
ther., x-ray)
(RADIOTHERAPY, in various diseases,
periodontitis)

Carotene content in the most widespread varieties of pepper in Bulgaria, used for making ground red pepper. Selskostop nauka 2 no.5/6:577-581 '63.

Studies on the quality of fruit of some heterosis peppers.
Selskostop nauka 2 no.7:789-794 163.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

Portable sanitation and epidemiological kit. Voen.med.shur.

no.8180-83 Ag 156

(BACTERIOLOGY, MEDICAL-EQUIPMENT AND SUPPLIES)

Immunogenesis in anticholera vaccination with standard and shortened intervals between injections; preliminary report. Zhur.mikrobiol. epid. i immun. 28 no.4:73-76 Ap *57. (MLRA 10:10)

1. Iz Nauchno-issledovatel'skogo voyenno-meditsinskogo instituta (Soviya)

(CHOLERA, immunol.

eff. of ordinary & shortened intervals between vectine injections on immun.)

TSANEV, R.G.; MARKOV, G.G.; KHRISTOVA, A.S.

्राप्त । १९४५ व ४४४४० च्याचन व्यवस्थातसम्बद्धाः **व्यवस्थातसम्बद्धाः । स्थापः ।** स्थापः स्थापः स्थापः ।

Disorders of vilnerary processes after total-body X-ray irradiation.

Med.rad. 6 no.4:48-55 '61. (MIRA 14:12)

(X-RAYS—PHYSIOLOGICAL KFFECT) (WOUNDS)

Adim KARISTOVA, E.

Кивистома (Елеонова). Мозайката по Цвеклото в Българии. [Beet mosaic in Bulgăria:]—Rev. Inst. Rech. sci. Minist. Agric., Sofia, 18, 1, pp. 89-100, 4 figs., 1950. [French summary.]

In Bulgaria beet mosaic is prevalent in the beet-producing districts of Gorna Oryakhovitza, Rusen, Shumen, and Sofia, causing serious losses especially to the seed crops, which are often reduced by 50 per cent. The symptoms, host range,

properties of the virus, and the mode of transmission resemble those described by

Hoggan [R.A.M., 12, p. 674] and Pound [ibid., 27, p. 270].

The beet mossic virus was detected in a number of hosts including chard [ibid., 28, p. 431], Beta vulgaris subsp. crossa, B. procumbers, B. vulgaris var. rubra, Amaranthus retroflexus, A. albus, A. monstrosus, A. paniculatus, A. albus var. roseus, A. aureus, Atriplex hortensis and its var. atropurpures, Chenopodium botrys, and C. ambrosioides. The susceptible beet varieties include Peragis Runkenrübe, Diutches, Bares Teutonia, Mamutka Cervens, Chotovice zehum, Eckendorf Yellow, Sakharose, Colosos, Kirshes-Colos, local sugar beet, sugar beet Nos. 572, 511, 4813/64, 5852/102, 512, 106, Enzhe original Nos. 128 and 501, Gol-1, Gol-2, and Gol-3; those of spinsch Victoria, Matador, Universal, and King of Denmark.

The tolerance of the virus to dilution was 1 in 400, thermal death point 45° to 50° C., and longevity in vitro (at 18° to 20°) 24 to 30 hours.

Both Aphie fabue and Myzus persicus were found to be effective vectors. The

incubation period was 11 to 14 days.

New crops should be planted at least 1,000 to 2,000 m. away from seed crops.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722330008-6"

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Khristova, E. Preventing the rotting of sugar-beet rootlets. p.19. Our agricultural products at the Plovdiv Fair. p.20.

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BULGARIA/General and Specialized Zoology - Insects.

P.

: Ref Zhur - Biol., No 9, 1958, 40135

Author

: Khristova, Ye:

Inst Title

: Aphids on Melon Fields and Experiments in Controlling

Them.

Orig Pub : Ovoshcharstvo i gradinarstvo.

Abstract : Melon and cucumber beds were greatly infected with the aphid Aphis gessipii, which had seventeen generations a year. A treatment of molon seeds prior to sowing with vophatox, parathion and systox, carried out as an experiment, did not produce any effect. Best results were obtained from dusting the plants with vophatox (20 kg/ hectare) and spraying with parathion (0.04%); within 8 days after treatment, the number of the aphids decreased 50 times, while in the control it increased 63 times. --

V.M. Popovskaya.

Card 1/1

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Abs Jour : RZhBiol., No 6, 1959, No 25210

Author Inst

: Khristova, Ye.
: Ministry of Agriculture and Forests; Institute for the Protection of Plants, Sofia.
tute for the Protection of Plants, Sofia. : Effect of Agricultural Engineering on Root

Title

Orig Pub : Nauchni tr. M-vo zemed. i gorite. Ser. rasteniyev"dstvo, 1957, 2, No. 6, 29-40

Abstract : Experiments for the protection of sugar beet and mangels from root rot were condcuted by the Institute for the Protection of Plants in Sofia. The basic agricultural engineering methods are: utilization of cereal crops as a predecessor; use of potassium and phosphorus fertilizers and manure, whereupon in the

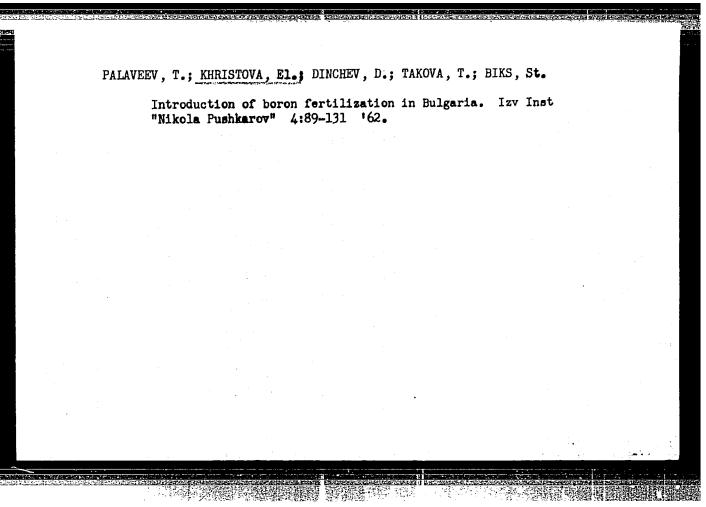
Card

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Country : BULGARIA

Category: Plant Diseases. Diseases of Cultivated Plants.

Abs Jour : RZhBiol., No 6, 1959, No 25210



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1. Institute of Physical Chemistry of the Bulgarian Academy of Sciences.

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Author : Khristova K.

Inst : Not given.

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Orig Pub: Byul. rastitelna zashchita, 1954, 3, Nol, 67-69.

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(FEVER THEAPY,
prep. of pyrogen from Alcaligenes fascalis (Bul))

(PYROGENS, preparation of,
from Alcaligenes fascalis, for fever ther. (Bul))
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KHRISTOVA, M. B.

Bulgaria

No degree listed

Okrug Dermato-Venerological Dispensary (Dermato-venerologichen dispanser), Ruse; Chief physician: V. GORANOV.

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